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NIE 49

SWEDEN: PORTS AND NAVAL FACILITIES
Section 1. Ports

Name	Military Port Capacity (long tons per day)	Accommodations	Shipbuilding and Repair	Cranes	Lines of Communications	Remarks
GÄVLE (60°41'N, 17°10'E)	5,200	<u>Alongside:</u> 3 Liberty's 7 GI-M's (Plus about 33,319 lin. ft. of lighter wharfage.) <u>Fixed Moorings:</u> 6 (class unknown)	<u>Shipbuilding:</u> Minor <u>Ship repair:</u> 1 shipyard: major repairs to boilers, machinery. 1 crane: 45-ton <u>Dry docks:</u> 1 marine railway: 305 ft. long, 1,550-ton capacity	22 quay cranes, 2 to 15-ton capacity.	<u>Road:</u> 3 main routes <u>Rail:</u> 5 single-track lines <u>Waterway:</u> None	Unlimited anchorage. Harbor frozen Feb.-Apr. Open storage: 865,000 sq. ft. Petroleum storage: 132,100 bbl. Vol. of trade 1947: 1,056,000 tons.
GÖTEBORO (57°42'N, 11°57'E)	31,600	<u>Alongside:</u> 1 C-3 12 Liberty's 9 GI-M's (Plus about 20,167 lin. ft. of lighter wharfage.) <u>Fixed Moorings:</u> 49 (class unknown)	<u>Shipbuilding:</u> 3 large shipyards: can build ships up to 30,000 tons. 6 building ways: 645 ft. long; 30,000-ton capacity 3 building ways: 580 ft. long; 30,000-ton capacity 1 building way: 490 ft. long; 16,000-ton capacity 4 building ways: n.a.; 12,000-ton capacity 1 building way: 410 ft. long; 10,000-ton capacity 1 building way: 300 ft. long; 5,000-ton capacity 9 cranes: 5 to 28-ton ca- pacity <u>Ship repair:</u> All major repairs. <u>Dry docks:</u> 1 graving dock: 476 ft. long, 69 ft. wide. 6 floating dry docks: lengths, 230 to 643 ft.; capacity, 1,850 to 23,500 tons. Several marine railways: 170 ft. long, 500-ton capacity.	104 wharf cranes: 1.5 to 22-ton capacity. 4 floating cranes: 6 to 80-ton capacity.	<u>Road:</u> 7 routes <u>Rail:</u> 5 single-track lines <u>Waterway:</u> Gota-Trollhatte Canal	See Sec. 2 Naval Facilities. Second largest port. Ranks first commercially: vol. of trade 1947, 4,627,752 tons. Important shipbuilding, industrial (2,500 concerns), high-grade steel production center. Covered storage: 1,431,479 sq. ft. Open storage: 230,000 sq. ft. Petroleum storage: 1,545,410 bbl. Harbor craft: 2,000 lighters, over 100 tugs, many coastal and canal craft. Unlimited anchorage. Seldom ice-bound.

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HALMSTAD ✓ (56°40'N, 12°52'E)	10,600	<u>Alongside:</u> 3 Liberty's 22 Cl-M's <u>Fixed mooring:</u> n.a.	<u>Shipbuilding:</u> None <u>Ship repair:</u> Minor repairs <u>Dry docks:</u> 2 marine railways: 450 and 1,000-ton capacity	10 wharf cranes: 2.5 to 6-ton capacity	<u>Road:</u> 3 main routes <u>Rail:</u> 3 single-track lines 1 narrow-gage line <u>Waterway:</u> None	Unlimited anchorage. Seldom ice-bound. Covered storage: 46,823 sq. ft. Open storage: 2,152,000 sq. ft. Vol. of trade 1947: 208,116 tons.
HALSINGBORG ✓ (56°03'N, 12°42'E)	7,600	<u>Alongside:</u> 1 C-3 1 Liberty 11 Cl-M's (Plus about 6,075 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> 4 buoys	<u>Shipbuilding:</u> Minor <u>Ship repair:</u> Minor repairs. 3 cranes: 3 to 40-ton capacity <u>Dry docks:</u> 2 graving docks: lengths 373 and 308 ft.; widths 52.5 and 45.2 ft. 1 marine railway: 135 ft. long, 400-ton capacity.	23 wharf cranes: 1 to 6-ton capacity	<u>Road:</u> 3 main routes <u>Rail:</u> 3 single-track lines <u>Waterway:</u> None	Unlimited anchorage. Never ice-bound. Covered storage: 800,000 sq. ft. Open storage: extensive. Petroleum storage: 336,640 bbl. Vol. of trade 1947: 985,968 tons.
KALMAR ✓ (56°40'N, 16°22'E)	12,000	<u>Alongside:</u> 5 Cl-M's (Plus about 8,627 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> Minor <u>Ship repair:</u> Machinery and minor hull repairs. 1 crane: 10-ton capacity <u>Dry docks:</u> 1 marine railway: 185 ft. long, 600-ton capacity	5 wharf cranes: capacity up to 5 tons.	<u>Road:</u> 3 main routes <u>Rail:</u> 3 single-track lines <u>Waterway:</u> None	Unlimited anchorage. Ice- bound in winter. Covered storage: 8,683 sq. ft. Open storage: extensive. Petroleum storage: available, capacity unknown. Vol. of trade 1947: 198,083 tons.
KARLSKRONA ✓ (56°10'N, 15°36'E)	4,400	<u>Alongside:</u> 3 Cl-M's (Plus about 2,570 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> None commercially <u>Ship repair:</u> All major repairs at Naval shipyard. <u>Dry docks:</u> 7 graving docks at Naval shipyard: see Sect. 2 Naval Facilities.	2 wharf cranes: 5-ton capacity	<u>Road:</u> 1 main route <u>Rail:</u> 2 single-track lines <u>Waterway:</u> None	See Sec. 2 Naval Facilities. Unlimited anchorage for ships not larger than Liberty- type. Rarely ice-bound. Covered storage: 8,582 sq. ft. Open storage: 153,490 sq. ft. Vol. of trade 1947: 61,500 tons.

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MALMÖ (55°37'N, 13°00'E)	25,000	<u>Alongside:</u> 6 C-3's 41 Cl-M's (Plus 7,305 lin. ft. of lighter wharfage) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> 1 shipyard: builds submarines, motor torpedo boats, and other type ships. 5 building ways, ranging in length from 469 to 597 ft., in capacity up to 30,000 tons. <u>Ship repair:</u> 1 shipyard: all major repairs 1 graving dock: 617.5 ft. long, 83.2 ft. wide. 1 graving dock: 534.7 ft. long, 78.7 ft. wide.	62 wharf cranes: 1.5 to 80-ton capacity.	<u>Road:</u> 4 main routes <u>Rail:</u> 1 double-track line 4 single-track lines <u>Waterway:</u> None	Unlimited anchorage. Rarely ice-bound. Covered storage: 1,166,354 sq. ft. Open storage: unlimited. Petroleum storage: 540,850 bbl. Vol. of trade 1947: 1,806,722 tons.
NORRKÖPING (58°36'N, 16°12'E)	15,200	<u>Alongside:</u> 13 Cl-M's (Plus about 8,135 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> Minor <u>Ship repair:</u> 1 shipyard and machine shops: general repairs. <u>Dry docks:</u> 1 marine railway: 250 ft. long, 1,800-ton capacity.	35 wharf cranes: 2 to 12-ton capacity.	<u>Road:</u> 3 main highways <u>Rail:</u> 2 double-track lines 2 single-track lines <u>Waterway:</u> None	Large industrial center. Open storage: ample. Vol. of trade 1947: 758,860 tons.
ÖRNSKÖLDSVIK (63°17'N, 18°44'E)	7,600	<u>Alongside:</u> 4 Cl-M's (Plus about 5,970 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> None <u>Ship repair:</u> 1 shipyard: machinery repairs <u>Dry docks:</u> 1 marine railway: 200 ft. long, 300-ton capacity.	2 wharf cranes: 5 and 15-ton capacity.	<u>Road:</u> 2 main routes <u>Rail:</u> 1 single-track line <u>Waterway:</u> None	Unlimited anchorage. Ice-bound Dec.-Apr. Covered storage: 11 warehouses. Vol. of trade 1947: 72,130 tons.
ÖXELÖSUND (58°40'N, 17°07'E)	4,600	<u>Alongside:</u> 1 C-3 3 Cl-M's (Plus 1,816 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> None <u>Ship repair:</u> Minor repairs. <u>Dry docks:</u> None	19 wharf cranes: 3.3 to 35-ton capacity.	<u>Road:</u> 3 main routes <u>Rail:</u> 1 single-track line <u>Waterway:</u> None	Important ore port. Unlimited anchorage. Ice-bound Feb.-Mar. Covered storage: 34,982 sq. ft. Petroleum storage: 12,600 bbl. Vol. of trade 1947: 1,504,240 tons.

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<u>PISEA</u> (65°19'N, 21°29'E)	2,800	<u>Alongside:</u> (2,050 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> n.a.	<u>Shipbuilding:</u> None <u>Ship repair:</u> Small machine shops: minor repairs. <u>Dry docks:</u> None	2 wharf cranes: 2.5 and 3-ton capacity.	<u>Road:</u> 2 main routes. <u>Rail:</u> 1 single-track line <u>Waterway:</u> None	Unlimited anchorage for vessels no larger than destroyers and coasters. Ice-bound Nov.-Apr. Covered storage: several warehouses. Vol. of trade 1947: 267,746 tons.
<u>STOCKHOLM</u> (59°20'N, 18°04'E)	66,600	<u>Alongside:</u> 4 C-3's 17 Liberty's 39 CL-M's (Plus about 30,591 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> 54 (class unknown)	<u>Shipbuilding:</u> 6 shipyards 5 building ways, capacity up to 8,000 tons. <u>Ship repair:</u> All major repairs to hull and machinery. <u>Dry docks:</u> 4 graving docks: see Sect. 2 Naval Facilities. 6 floating dry docks: ranging in length from 100 to 478 ft., in width from 29.5 to 78.0 ft., and in capacity from 350 to 8,000 tons. 7 marine railways: ranging in length from 62 to 147.5 ft. and in capacity from 120 to 800 tons.	135 wharf cranes: 1 to 40-ton capacity. 10 floating cranes: 4 to 60-ton capacity.	<u>Road:</u> 6 main routes <u>Rail:</u> 2 double-track lines 4 single-track lines <u>Waterway:</u> Stromsholme, Eskiltuna, and Hjalmar Canals.	See Sect. 2 Naval Facilities. The most important port on Baltic. Unlimited anchorage. Ice-bound Dec.-Mar. Covered storage: 2,179,110 sq. ft. Open storage: 1,160,000 sq. ft. Petroleum storage: 2,009,920 bbl. Vol. of trade 1947: 4,333,182 tons.
<u>SUNDSVALL</u> (62°23'N, 17°20'E)	12,000	<u>Alongside:</u> 2 Liberty's 4 CL-M's (Plus about 8,465 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> 1 shipyard: 1 building way, capacity 8,000 tons. <u>Ship repair:</u> 1 shipyard: minor repairs <u>Dry docks:</u> 1 marine railway: 170 ft. long, 300-ton capacity.	7 wharf cranes: 2 to 10-ton capacity. 2 floating cranes: 1.5-ton capacity.	<u>Road:</u> 3 main routes <u>Rail:</u> 3 single-track lines <u>Waterway:</u> None	Important lumber port. Unlimited anchorage. Ice-bound Jan.-Apr. Covered storage: 55,650 sq. ft. Vol. of trade 1947: 258,792 tons.

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Name	Military Port Capacity (long tons per day)	Accommodations	Shipbuilding and Repair	Cranes	Lines of Communications	Remarks
LANDSKRONA (55°52'N, 12°50'E)	11,800	<u>Alongside:</u> 5 Liberty's 2 GL-M's (Plus about 7,970 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> 1 buoy 7 dolphins	<u>Shipbuilding:</u> 1 shipyard: 4 building ways, capacity up to 20,000 tons. <u>Ship repair:</u> 2 shipyards: major hull and machinery repairs. 1 crane: 80-ton capacity <u>Dry docks:</u> 1 graving dock: 631 ft. long, 80 ft. wide. 1 floating dry dock: 300 ft. long, 2,700-ton capacity. 1 marine railway: 120 ft. long, 300-ton capacity	10 wharf cranes: 1 to 20 ton capacity	<u>Road:</u> 2 main routes <u>Rail:</u> 2 single-track lines <u>Waterway:</u> None	Unlimited anchorage. Never ice-bound. Petroleum storage: ample. Vol. of trade 1947: 414,578 tons.
LIMHAMN (55°35'N, 12°56'E)	8,200	<u>Alongside:</u> 4 Liberty's 3 GL-M's (Plus 5,247 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> n.a.	<u>Shipbuilding:</u> None <u>Ship repair:</u> 1 shipyard and machine shops: minor repairs <u>Dry docks:</u> 1 graving dock: 117 ft. long, 27.2 ft. wide.	2 wharf cranes: 3 and 6-ton capacity	<u>Road:</u> 1 main route <u>Rail:</u> 1 standard-gage line <u>Waterway:</u> None	Industrial port. Rarely ice- bound. Covered and open storage: ample and rail-served. Vol. of trade 1947: 425,578 tons.
LULEA (65°35'N, 22°09'E)	8,200	<u>Alongside:</u> 2 C-3's 3 Liberty's 7 GL-M's (Plus about 4,090 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> n.a.	<u>Shipbuilding:</u> None <u>Ship repair:</u> 1 shipyard and machine shops: minor repairs. 2 marine railways: lengths, 80 and 60 ft.; capacities, 500 and 300 tons.	3 wharf cranes: 4 to 18-ton capacity.	<u>Road:</u> 2 main routes <u>Rail:</u> 1 single-track line <u>Waterway:</u> None	Principal ore and timber port. Unlimited anchorage. Ice- bound Nov.-May. Covered storage: 20,775 sq. ft. Open storage: 161,450 sq. ft. Petroleum storage: 50,319 bbl. Vol. of trade 1947: 2,216,872 tons.

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Name	Military Port Capacity (long tons per day)	Accommodations	Shipbuilding and Repair	Cranes	Lines of Communications	Remarks
<u>TRÄVÄLLEBORG</u> (55°21'N, 13°09'E)	3,600	<u>Alongside:</u> 10 Cl-M's (Plus about 312 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> None	<u>Shipbuilding:</u> n.a. <u>Ship repair:</u> 1 shipyard: probably minor repairs. <u>Dry docks:</u> n.a.	4 wharf cranes: 5-ton capacity.	<u>Road:</u> 2 main routes <u>Rail:</u> 4 single-track lines <u>Waterway:</u> None	Unlimited anchorage. Seldom ice-bound. Covered storage: 146,000 sq. ft. Petroleum storage: ample. Vol. of trade 1947: 283,785 tons.
<u>UMERÄ</u> (63°49'N, 20°17'E)	8,400	<u>Alongside:</u> 6 Cl-M's (Plus about 4,430 lin. ft. of lighter wharfage.) <u>Fixed mooring:</u> n.a.	<u>Shipbuilding:</u> None <u>Ship repair:</u> Minor repairs only. <u>Dry docks:</u> None	2 wharf cranes: 5 and 10-ton capacity.	<u>Road:</u> 4 main routes <u>Rail:</u> 1 single-track line <u>Waterway:</u> None	Ice-bound Dec.-Apr. Covered storage: 12,485 sq. ft. Open storage: 269,000 sq. ft. Vol. of trade 1947: 788,417 tons.

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Section 2. Naval Facilities

Name	Activities	Facilities	Capabilities	Remarks
GUSTAVSVIK (62°50'N, 17°52'E)	Operational base near Harnosand	.....	.....	Norrland Coast District with headquarters at Harnosand.
	<u>Base components:</u>			
	(1) Commercial harbor.....	..... n.a. ....	.....
	(2) Naval shipyard.....	1 graving dock.....	Length 462 ft.; breadth 68 ft.; and depth over sill 26 ft.	Located 2 kilo from Ramvik on the Angerman River and 22 kilo from Harnosand.
		1 floating dry dock.....	Lifting capacity of 300 tons, the largest vessel that can be accommodated has a length of 104 ft., a width of 29 ft., and a draft of 11 ft.	Dry dock is serviced by a traveling crane of approximately 3 tons capacity at 16 ft. reach.
	(3) Repairs.....	Repair shop adjacent to the dry dock.	295 ft. x 39 ft.....	Yard is primarily engaged in the repair of naval vessels up to and including the size of a destroyer. Gustavsvik has the only dry dock in the Gulf of Bothnia.
	(4) Naval supply stores..... n.a. n.a.	

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ANNEX 2

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Name	Activities	Facilities	Capabilities	Remarks																																				
KARLSKRONA (56°10'N, 15°36'E)	Operating base for the Swedish Coastal Fleet, and headquarters of the South Coast Naval District.	Most important (as of 1949) of the three naval bases. It serves principally as a fitting-out and repair yard as well as a training center.																																				
	<u>Base components:</u>																																							
	(1) Commercial harbor.....	See ^{Annex} Section 1. Key Ports.....																																						
	(2) Naval shipyard.....	7 graving docks.....	<table border="1"> <thead> <tr> <th>Length at water line</th> <th>Length on bottom</th> <th>Width at entrance</th> <th>Depth on blocks</th> </tr> <tr> <th>ft.</th> <th>in.</th> <th>ft.</th> <th>in.</th> </tr> </thead> <tbody> <tr><td>607</td><td>00</td><td>607</td><td>00</td></tr> <tr><td>321</td><td>00</td><td>321</td><td>00</td></tr> <tr><td>216</td><td>08</td><td>211</td><td>00</td></tr> <tr><td>328</td><td>00</td><td>323</td><td>00</td></tr> <tr><td>221</td><td>01</td><td>219</td><td>00</td></tr> <tr><td>236</td><td>08</td><td>235</td><td>00</td></tr> <tr><td>233</td><td>09</td><td>218</td><td>00</td></tr> </tbody> </table>	Length at water line	Length on bottom	Width at entrance	Depth on blocks	ft.	in.	ft.	in.	607	00	607	00	321	00	321	00	216	08	211	00	328	00	323	00	221	01	219	00	236	08	235	00	233	09	218	00	Extensive repairs can be carried out.
Length at water line	Length on bottom	Width at entrance	Depth on blocks																																					
ft.	in.	ft.	in.																																					
607	00	607	00																																					
321	00	321	00																																					
216	08	211	00																																					
328	00	323	00																																					
221	01	219	00																																					
236	08	235	00																																					
233	09	218	00																																					
		1 marine railway.....	Can handle a vessel 131 ft. long, 21 ft. wide, 9 ft. 10 in. draft.																																					
		1 ship-building slip.....	A 350-ft. vessel can be built.																																					
		5 finger dry docks.....	Can handle submarines, minesweepers, and small destroyers.																																					
		1 fitting-out basin.....	Basin may be emptied and used as a temporary dry dock.																																					
(3) Repair.....	Machine shop, electric shop, boiler works, and a foundry.	2-story building.....	These facilities make all types of auxiliary machinery with the exception of main turbines.																																				
(4) Ordnance.....	Torpedo workshop, cartridge-case machine shop, gun testing shop, torpedo firing station.	No above-ground oil storage space was observed.																																				
(5) Supply.....	Commissary stores, ship stores, coaling station, lubricating-oil station.	Total number of naval and civilian personnel attached to the navy yard is approximately 3,000 of which about one-third are enlisted men.																																				
(6) Administration.....	Administration buildings, barracks, and quarters.	Barracks can accommodate 900 men.																																					
(7) Communications.....	Radio and visual signal station...																																					

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Name	Activities	Facilities	Capabilities	Remarks
STOCKHOLM (59°20'N, 18°04'E)	A principal base and commercial port, seat of the Swedish Navy Department, headquarters of the East Coast Naval District.	The naval station is located on the islands of Skeppsholmen and Kastellholmen, the naval shipyard on the islands of Beckholmen and Djurgården (Gälarvarvet); these islands are in the heart of the harbor of Stockholm; naval units in reserve status are berthed at these 2 installations. Most of the active units of the East Coast Fleet are based at Hårsfjärden (15 mi. S of Stockholm), which is a training and operating base. The Stockholm area is probably the best defended in Sweden and would be difficult to capture by sea-borne assault.
<u>Base components:</u>				
(1) Commercial harbor.....	See Section 1. Key Ports.....	.....	.....	* 2 smaller dry docks on Beckholmen are leased to commercial interests.
(2) Naval shipyard* (at Gälarvarvet).....	4 graving docks.....	Over-all length (ft.) 600.4 425.0 328.0 317.5	Width on bottom (ft.) 82.0 58.4 54.3 33.0	Depth at entrance (ft.) 31.5 23.0 17.0 13.0
	1 marine railway.....	131 ft. L., 18 ft. beam, 5 ft. draft.		Destroyers and submarines receive major overhauls at Gälarvarvet, and 125-ton patrol craft have been constructed here. There were about 1,600 employees in the yard as of 1949.
(3) Repairs.....	Gälarvarvet contains a machine shop, boiler shop, foundry, sheet metal shop, electrical shop, and other fabrication and repair shops.	All are small and poorly equipped.		
(4) Supply.....	Torpedo range and storage facilities, mine depot, coaling station, fuel-oil storage.	..... n.a.		At least 5 tunnels lead into the rocky cliffs on the NE side of Bergholmen Island mine depot.
(5) Degaussing station.....	Ships of at least 10,000 tons can be demagnetized.	..... n.a.		
(6) Administration.....	Administration buildings, barracks, and quarters.	Buildings are old but substantial, multi-storied structures, mostly of stone.		
(7) Naval schools.....	Swedish Naval Academy, Warrant officer's school, sonar, engineering, navigation, and a communications school, also a range-finder and practical signal school.	Provides education for naval line officers, coast artillery officers and supply officers.		Training school for warrant officers is located at Hårsfjärden, 15 mi. S of Stockholm.
(8) Sea-plane base.....	A sea plane ramp, a hangar, storage facilities, and some laboratories.	..... n.a.		
(9) Hydrographic office.....	..... n.a. ....	..... n.a.		
(10) Naval station.....	The YTB Sprangaren, a submarine tender is based at Karlskrona.	..... n.a.		
(11) Schools.....	Train conscripts, regulars, and petty officers.	800-900 assigned to various schools.		

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GÖTEBORG (57°42'N, 11°57'E)	Headquarters of the West Coast Naval District. Contains a naval station and an operating base.	Goteborg would be difficult to defend, but is of strategic importance in the defense of Sweden's Stockholm-Goteborg line.
<u>Base components:</u>				
(1) Commercial-Naval harbor....	See <i>Annex</i> Section 1. Key Ports.....	.....	.....	Most of the naval facilities are located at Nya Varvet at the entrance to the port of Goteborg. All naval repairs are undertaken by the three large commercial ship-building concerns at Goteborg.
(2) Naval shipyard.....	No drydocking facilities.....	Very limited but nevertheless many good repair facilities.		
(3) Patrol base.....	Only active vessels are (1949) a few old submarines, several minesweepers, and various patrol craft.	Patrol units are for the defense of the inshore coastal waters.		
(4) Supply and repair.....	Torpedo depot, mine depot, repair shop, ammunition depot located underground just W of the inner end of the break-water.	..... n.a.		Repairs are limited to the work normally provided by a U. S. tender.
(5) Communications.....	Radio station and signal station....	..... n.a.		Radio station believed to be situated close westward to Nya Varvet.
(6) Administration.....	2-story staff buildings erected 1944. 4 barracks-type buildings. 2 separate buildings SW of navy yard.	Houses all the offices of the district staff. Accommodates 3,000-4,000 enlisted men. Quarters for 118 commissioned officers.		
(7) Training unit.....	Minesweeping training unit operates out of the Goteborg base.			

n.a. - Information not available.

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